



(1) **Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - **Directive 94/9/EC**

(3) Test Certificate Number

SEV 06 ATEX 0104 X

(4) Equipment: Weighing system type XS xxxxx xX xx and type X xxxxx xX xx

(5) Manufacturer: Mettler-Toledo AG

(6) Address: Im Langacher 44, CH-8606 Greifensee

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Electrosuisse SEV certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The results of the examination are recorded in the confidential report No. 05-IK-0249.02 incl. extension 1

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 1127-1:2007

EN 60079-0:2006

EN 60079-15:2005

(10) If the sign «X» is placed after the certificate number, it indicates that the equipment is subjected to special conditions for safe use specified in the schedule to this certificate.

(11) This type examination certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this directive apply to the manufacture and the placing on the market of this equipment.

(12) The marking of the equipment shall include the following:

 **II 3G Ex nL IIC T5**

Electrosuisse SEV
Certification Body ATEX

Fehraltorf, 2010-04-26

Replaces certificates dated
2006-04-03

Extension 1; new issued Standards & modifications

Martin Plüss
Product Certification

(13)

Appendix

(14)

type examination certificate SEV 06 ATEX 0104 X

(15) Description of the equipment

The weighing system type XS xxxxx xX xx and type X xxxxx xX xx serve for weighing within hazardous areas of zone 2.

The weighing systems can be fitted with an optional Bluetooth, Ethernet or RS232 interface.

The weighing systems type XS xxxxx xX xx are provided either with a direct-mounted operator terminal (touch screen) or operator terminal (touch screen) on a stand for positioning 30 cm above the weighing pan.

The weighing systems (weighing platforms) type X xxxxx xX xx are standalone devices without operator terminal (touch screen).

Ratings

Supply circuit

(with special two-pin connector

with type of protection "limited power" Ex nL IIC

Only for connection to a certified circuit with "limited power".

Maximum values:

$$U_i \leq 13,5 \text{ V}$$

$$I_i \leq 1,2 \text{ A}$$

$$P_i \leq 6,0 \text{ W}$$

$$C_i = 0 \text{ nF (effective internal capacitance)}$$

$$L_i = 0 \text{ }\mu\text{H (effective internal inductance)}$$

Data circuits for peripheral devices via installed:

Ethernet interface or
RS232 interface

Only for connection to an approved peripheral device within the hazardous area with a signal circuit with the type of protection "limited power" Ex nL IIC or a peripheral device outside the hazardous area with a signal circuit with the type of protection "limited power" Ex [nL] IIC.

Data circuits for peripheral devices via installed:

Bluetooth interface

Wireless supply via Bluetooth
frequency band of 2,4GHz / 1mW.

Note(s)

1. According to RL 94/9/EC (ATEX 95) Appendix I, the weighing systems type XS xxxxx xX xx and type X xxxxx xX xx are devices of equipment group II, category 3G which, according to RL 99/92/EC (ATEX 137) can be used in zone 2 as well as gas groups IIA and IIB and IIC, which are potentially explosive due to combustible substances in the temperature classes T1 to T5.

For use/installation, the requirements of EN 60079-14 must be observed.

2. The permissible ambient temperature range is +5°C to +40°C.

Appendix to type examination certificate SEV 06 ATEX 0104 X

- (16) Test report 05-IK-0249.02 incl. extension 1
- (17) Special conditions
1. The weighing systems type XS xxxxx xX xx and type X xxxxx xX xx may only be used indoors in clean rooms.
 2. The device and protective cover may only be cleaned with a moist cloth.
- (18) Fundamental essential health and safety requirements
Fulfilled by the standards applied.

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